Crystal growth and hierarchical structure fabrication by controllable layers additive method PhD

**Funding:** £14,553 (UK/EU)
**Start Date:** ASAP
**Supervisors:** Dr Dmitry Isakov and Dr Gregory Gibbons

**Project Overview:**
This project is with leading researchers in WMG’s Net Shape Manufacturing Group.

This multidisciplinary project will focus on the development of micro-3D-printing for single crystal growth and controllable mesocrystalline formation of organic molecular materials with tailored functionality.

Within the progress of the project, a series of investigations will involve the development of precision 3-axis positioning and controllable dispenser system, formulation of printing conditions and material precursor, research on crystals growth and hierarchical structures, comprehensive properties characterisation, structural and morphological analysis.

**Funding:**
This position provides an annual stipend of £14,553 for 3.5 years.

To be eligible for this project the successful applicant should have indefinite leave to remain in the UK and have been ordinarily resident here for 3 years prior to the project start-date, apart from occasional or temporary absences. Additional details of these criteria are available on the EPSRC website.

**Eligibility:**
Candidates should have a minimum of an upper second (2.1) honours degree in chemistry, physics or engineering.

**Attributes:**
You should be enthusiastic about the subject, have a particular interest in functional organic materials, micro-3D-printing and additive layer manufacturing in general.

You should have excellent analytical skills and high level of innovative thought.

Although the support will be provided, you should be capable of working with minimal guidance and supervision.

Good programming skills (LabVIEW) or/and ability to learn new software quickly are desirable.

**Apply:**
To apply, please complete our online enquiry form.